

White River Dam and White River Lake

OWNER

White River Municipal Water District to supply water to Post, Spur, Ralls, and Crosbyton.

ENGINEER

Freese, Nichols and Endress.

LOCATION

On the White River in Crosby County, 16 miles southeast of Crosbyton.

DRAINAGE AREA

172 square miles.

DAM

Type	Earthfill
Length	3,300 ft
Height	84 ft
Top width	30 ft
Top of dam elevation	2,395.0 ft above msl
Top of roadway	2,396.0 ft above msl

SPILLWAY (emergency)

Location	Right end of dam
Type	Excavation in rock
Crest length	1,100 ft
Crest elevation	2,384.0 ft above msl

SPILLWAY (service)

Type	Drop inlet structure
Conduit size	5 by 5 ft
Crest elevation	2,369.2 ft above msl
Invert of low outlet	2,330.75 ft above msl

OUTLET WORKS (for water supply)

Type	Rectangular tower (2 gated openings)
Location	Right of emergency spillway
Conduit to pump well	48-inch diameter by 180 ft long
Equipment	3 vertical pumps
Invert for lowest supply	2,323.0 ft above msl

STATE AUTHORIZATION

Permit No. 1920 (Application No. 2101) November 3, 1958. Permit No. 1920A (Application No. 2175) January 18, 1961, relocates dam and increases storage capacity to 38,232 acre-feet. Permit authorizes annual diversion of 4,000 acre-feet for municipal use, 1,000 acre-feet for industrial use, and 2,000 acre-feet for mining purposes.
Permit No. 1920B (Application No. 2101B), August 3, 1972, authorizes raising the service spillway to elevation 2,372.5 ft above msl with an increase in capacity to 44,910 acre-feet with an area of 2,020 acres.

RESERVOIR DATA (Based on May 1971 curve by Freese, Nichols and Endress)

FEATURE	ELEVATION (FEET ABOVE MSL)	CAPACITY (ACRE-FEET)	AREA (ACRES)
Roadway on dam	2,396.0	—	—
Top of dam	2,395.0	—	—
Crest of emergency spillway	2,384.0	71,600	2,673
Crest of service spillway	2,369.2	38,600	1,808
Invert of low flow outlet	2,323.0	650	—
Usable conservation storage space	—	37,950	—
* Proposed service spillway crest elevation	2,372.5	44,910	2,020

GENERAL

Construction started	September 12, 1962
Dam completed	November 21, 1963
Impoundment of water began	October 1963
General contractor	Luce Construction Company
Cost of the dam	\$980,062

* Proposed construction to increase height of service spillway not started as of October 31, 1972.

